

Congo - TN Tom Gregory N4NW will be on as TN8NW June 30-July 4, and maybe earlier. See details on Page 2.

Minami Torishima - JD1 Charlie KA2CC will be on from JD1 on 10-20 SSB July 8-15, including the IARU HF contest. Try the general portion of 15 and 20, and 28490 kHz on 10. Split frequency for Europe. Note JD1 is in Zone 90, not Zone 45. QSL Callbook address with stateside SASE, or SAE and 1 IRC for US, 2 IRCs for DX. Charlie says he hasn't received any cards via the ARRL bureau in a year, so beware QSL bureau route.

Nevis - V47 Greg KO9Y will be on as V47/KO9Y June 18-25 on 10-80M CW, usual DX frequencies. QSL with SASE to KO9Y.

Edited by Chod Harris VP2ML

The DX Bulletin

America's Premier Weekly Amateur Radio Publication

Oblast 177 Work Oblast 177 before it disappears, as UM9MWA/UM5P is on all bands through June 27. They're looking for USA 00-0500Z. QSL to UM8MDX, Box 240, Franze 720055 USSR.

Western Samoa - 5W Bing VK2BCH is due on as 5W1GY through June 24, when he hopes to move on to Tokelau as ZK3RVC. Watch 7163 kHz at 0700Z.

Anguilla - VP2E Mac KV4AM is on the road again, as VP2EMA through June 22, on CW. Try 30 kHz up and 10105 kHz. QSL home call.

US Virgin Islands - KP2 QRP enthusiast Paula Franke WB9TBU and others will be /KP2 July 7-14, including IARU HF test, 80-10, plus WARC and Novice bands, mostly CW. Honest signals reports would be appreciated. QSL NU4B.

DXCC Notes

W1AW reports that A15AA, AB, and AC cards are now acceptable for DXCC credit, thanks to documentation received. Also, TY0LC cards are okay for DXCC credit as soon as they come out.

Shortly Noted

- 5Z4DU says he is often on 21320 kHz at 1830Z, and will make CW QSOs on request. QSL via KE4DA, direct to Box 21355, Nairobi, Kenya, or via 5Z4 bureau.
- J52US says he has his 160M antennas up, and he transmits on 1827, listens on 1832 kHz at 0000Z weekends.
- The Germans working on the next amateur satellite are often /FY0 on 14280 or 21280 kHz at 20-2100Z, talking home.
- Try 9X5SP on 14292 kHz at 0230Z on Mondays, with DK2RZ operating.
- ZZ8ADV is the special call for Brazil's Fire Prevention Week, July 2-8. SSB only on 14190 kHz. QSL to PW8DP.
- Duncan 9Q5DA closes down at the end of June. QSL to KC4NC before the end of the year.
- Look for JW/WA4ZEL for the next couple of weeks, mostly on 14025 kHz. QSL WD4ARY.
- A92EM stayed in Bahrain to at least June 10. Next spot: A6, but little chance of individual operating permission.
- DXNS says that D68WB is due back in the Comoros (AF-07) now.
- 20 M SSB net check-ins were: 9X5AA J52BLU 9V1TJ BV2FA 9M2HB TR8JLD 5T5NU J28DN 5V7WD.
- 20 M regulars are: 7X2FK 14010-20 0100Z+, FT5XE 14055 1100Z, JT1BR 14010-20 14-1500Z, BV2B 14225 or 14198 at 1145Z or 1330Z, J52US 14200+ 22-2300Z, XU1SS 14165 1250Z.
- On 15 M, watch for: TA2AI 21010 2230Z, RV0YF in Zone 23 on 21012 kHz often, 9M2HB 21255 1650Z, A4XKP 21265-75 1700Z, and A92BE 21200-230 kHz at 03-0500Z.

RTTY Report

- JA1ACB reports that ZK3YY will be on RTTY June 20-26, with limited operating time.
- C31NP 21089 kHz at 0030Z. QSL Callbook address.
- J73EH on 14082 kHz at 0320Z, VP2EZ on 14081 kHz at 2300Z, 9Y4GC on 14092 kHz at 2345Z, and V44KM on 14083 kHz at 0100Z are active from the Caribbean.
- AH2BT has been on 14083 kHz at 1100Z.
- TA3C is on 14085 kHz at 0445Z.
- TR8DX is on 14089 kHz from 2300Z.
- EA8IY was on 14092 kHz at 2300Z.
- ZD7CW has been on 14082 kHz at 2330Z.
- TU4CQ was on 14092 kHz at 2400Z.
- 6T2MGIN North Sudan continues activity on 14094 kHz at 2400Z.
- 9H4B has been on 14075 kHz FEC at 0625Z.

PROPAGATION

Forecast and Historical Data

Day Forecast	27 Days Before	55 Days Before
June	Date Flux A K	Date Flux A K
17 High/Low	5/21 110 10/22 2	4/23 110 18/33 1
18 High/Low	5/22 111 07/18 1	4/24 104 05/12 3
19 High Nor	5/23 119 04/16 0	4/25 105 05/14 2
20 High/Low	5/24 117 08/17 2	4/26 103 08/15 0
21 High Nor	5/25 119 06/15 2	4/27 101 04/15 1
22 High Nor	5/26 125 08/16 1	4/28 100 13/23 2
23 High/Above	5/27 127 02/10 1	4/29 101 09/14 1
24 High Nor	5/28 127 01/12 1	4/30 103 07/15 1
25 High Nor	5/29 136 10/16 3	5/1 107 05/12 2
26 High/Low	5/30 139 12/21 3	5/2 115 07/14 2
27 High Nor	5/31 145 09/17 2	5/3 121 04/15 2
28 High Nor	6/1 150 06/14 2	5/4 125 13/25 3
29 High Nor	6/2 144 05/13 2	5/5 119 16/32 2
30 Above Nor	6/3 145 05/11 0	5/6 114 60/125 2
July		
1 High Nor	6/4 147 01/13 1	5/7 111 09/21 3
2 High Nor	6/5 147 07/19 3	5/8 115 12/24 2
3 High Nor	6/6 154 09/19 2	5/9 120 10/20 3
4 High Nor	6/7 160 05/15 2	5/10 114 14/20 2

Thanks KH6BZF and Space Environment Services Center.

Propagation Watch

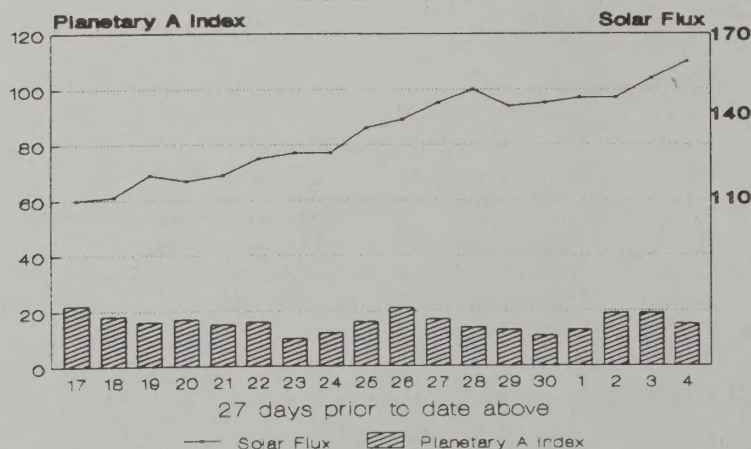
The month of June opened with a rapid increase in solar flux. After starting the month right with a Cycle-22 high of 150, the solar flux continued to increase, and actually averaged more than 150 for the entire first week of June. Flux hit a new high of 165 on June 9.

All this welcome boost in solar activity has come without any increase in absorption. The region on the sun that caused the solar disturbance in May failed to recur in early June, to the relief of all DXers. The Planetary A-index has stayed low enough to permit good multi-hop and long-path openings, especially on 15 meters, which has been open almost all night. 10 meters has also been open during the day.

Even 6 meters showed F2 activity, with the East Coast working Europe and the West Coast working the Pacific and Japan on Friday, June 3 (just missing the ARRL VHF QSO Party.) This could be the start of some fantastic propagation on 6 meters!

If solar activity repeats this coming solar revolution (which it hasn't been doing), look for good-to-excellent conditions on 15 and 20 meters for the next two weeks. The lower bands will be noisy and signals weak, with the approach of the summer solstice. North-south paths, E-skip, and maybe some F2 will keep 10 and 12 meters alive.

Solar Data



TN4NW will be the call sign for the upcoming DXpedition to Brazzaville, Democratique Republic du Congo. Tom 9Q5NW received a copy of the license, dated 18 May 1988, on June 1. The license permits CW and SSB operation on 10, 15, 20, 40, and 80 meter amateur bands, is good for six months, and is renewable.

Equipment consists of a donated ICOM 761, which Tom was testing from Zaire on June 6. Initial antenna installation will be a donated all-band vertical and a broadband dipole, with a tri-bandner planned.

The actual dates of operation will depend on work and family commitments. However, as soon as Tom gets the station assembled, he plans an extended operation of several days. The most likely time is June 30-July 4, over the long holiday weekend.

CW 25 kHz up from the bottom of the bands. SSB on 3750, 7043, 14145, 14180, 21250, and 28490 kHz, all split frequency. Most operation will be on 10, 15 and 20 meters. No RTTY or other modes planned. The license does not allow 160 meter operation.

Tom will log with his computer and WB2DND's logging program, which identifies duplicate contacts by band. Stations are discouraged from making duplicate contacts on the same band. Tom has been known to delete from the log calls of stations operating in what he considers a violation of Rule 12 of the ARRL DXCC Rules. ["Fair play and good sportsmanship in operating are required of all DXCC members".]

All requests for QSLs should go directly to Tom's QSL manager: Tom Harrell AL7EL, P. O. Box 368, Stockbridge GA 30281 USA, or via AL7EL's 1988 Callbook address. Do not send cards to the TN bureau, which is questionable at best. Also, please don't send cards through the KL7 QSL bureau. [If you must use the QSL bureau, send your cards to Tom's stateside call: N4NW. He'll get them eventually.]

Logs will go to AL7EL at the end of every week on a computer disk. To speed processing, stations are requested to place their call sign on the bottom front of the envelopes sent to AL7EL. Cards with proper return postage will be handled immediately. Cards without sufficient postage will be returned via the ARRL bureau system when Tom returns to the States in mid-1989.

The costs of this operation are high, with a license application fee alone of more than US\$700. Add in costs of crossing the river, food, and lodging in Brazzaville, and TN trips get very expensive. Donations are greatly appreciated, and can be sent to AL7EL.

A complete copy of the TN4NW documentation: license application, correspondence, and license, in French, is available for \$5. Proceeds will go to help pay for the operation. Order from Tom Brown KC4NC, 742B West 21st Street, Norfolk VA 23517.

WB2DND's logging program for the PC is also available. Again, proceeds from the sale will go toward the TN operation. For details, send an SASE to Don Greenbaum WB2DND, P.O.Box 79, Plymouth MA 02364.

[Congo - TN ranks 35th on the 1987 The DX Bulletin's Most Wanted Countries list, and is the rarest of the Terrible T's. Tom's operation will go a long way toward reducing demand for this one. -ed.]

Franz Josef Land Expedition

The Earthwatch program (P.O.Box 403, Watertown MA 02172, phone (617) 926-8200) is sponsoring a joint Soviet-US expedition to Franz Josef Land this summer. They are looking for six meteorologists and geophysicists to assist soviet scientists with rocket studies of the upper atmosphere. Contributions of \$30 or more will help sponsor this unique expedition.

BANDPASS

Reports Wanted,
Especially RTTY, 30 meters

-----RTTY-----

5B4FN	14090	0419	4	CA
5H3ZO	14097	0310	1	OH
C31NP	14093	0405	30	OH
C31NP	21089	2315	30	OH
GI0AIQ	14090	2350	5	MI
GI4YPS	14073	0115	2	OH
GM3ZXL	14084	0635	8	CA
GW0ANA	14086	2215	29	OH
HP2XSJ	14083	0635	9	CA
LX1BY	14090	0300	2	OH
OD5NG	14080	0320	1	OH
P43SF	14086	2145	29	OH
PJ2MI	14090	1045	31	OH
SV5TS	14093	0307	26	NY
TR8DX	14088	2155	6	CA
TU2BU	14083	2320	24	OH
TU4CQ	14081	2400	24	OH
UA9FM	14083	0119	26	OH
UT5RP	14088	0300	2	OH
UZ9CWA	14083	0009	5	OH
VP2MHD	14082	1050	31	OH
YB5QZ	21088	1615	10	CA
YS1TG	14080	0035	25	OH
ZD7AF	14088	2222	30	OH
ZP5CVI	14083	2359	4	OH
ZY0TK	21084	0000	5	CA
U2JX	21089	0255	2	OH

-----160 Meters-----

KL7Y	1833	1130	2	WA
LU2DVI/H	1837	0459	7	WA
PY3CEJ	1837	0500	7	WA
ZL2ANR	1833	1130	2	WA
ZP5JCY	1838	0055	27	MA

-----75 Meters-----

KC6JC	3798	1000	31	MD
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-----40 Meters-----

KH3/WY5L	7165	0748	4	TN
P29SS	7004	1120	4	WY
ZK1XV	7165	0748	6	NV

-----30 Meters-----

KC6SI	10105	1121	31	MA
VP2EMA	10103	0244	4	MA

-----20 Meter CW-----

4K0E	14007	1216	4	OR
4S7EA	14005	0025	1	MI
7X2FK	14017	0100	3	OR
9J2BO	14025	1343	7	WA
9V1XE	14009	1154	4	MN
BV2B	14011	1327	28	MD
BY4RB	14033	1240	1	NY
EA9SM	14025	0810	2	MD
HB0CZS	14001	0110	3	OR
J52US	14025	2140	5	MN
JD1/	14030	1324	1	MT

JA1XGI

JT1BR	14010	1359	1	MT
JW/	14027	1210	6	IA

WA4ZEL

JW0B	14020	0135	30	CT
KH3/WY5L	14029	0925	2	FL
OX3LX	14015	0323	2	MD
P29RA	14009	1230	2	MT

Key to Bandpass: Callsign, frequency, UTC, day of month state. * = long path, P = Packet. All 'portable' calls are listed with country of operation first, regardless of format used on the air.

U8BQ	14030	0025	9	FL
UA0Q/	14003	2306	5	MA
UA6HSD				
UA0YAG	14005	1415	3	OR
UH8BAF	14026	0057	31	FL
V85SK	14025	1151	3	MN
VP2EMA	14015	1300	6	IA
XU1SS	14029	1528	8	CA
YJ2JIN	14023	0100	4	IA
YK/	14030	0445	6	FL

OE1RUA

YN3CC	14004	0638	10	FL
Z24JS *	14013	1123	27	CT
ZS6DF *	14031	1440	6	CA

-----20 Meter SSB-----

1Z9B	14233	1310	1	CO
3B8DB	14224	1228	7	MD
3D2MP	14225	1158	27	IN
3DA0AN	14190	1115	28	FL
4F6PC	14235	1229	5	MA
4K0DR	14181	0002	29	IL
4S7NMR	14176	1000	4	MA
4S7RO	14171	1144	1	MD
4U/VO1KS	14214	2225	27	MA
7X5ST	14250	0352	3	CO
9G1PP	14226	0136	28	CT
9N1MM	14183	0050	30	CA
A71BJ	14189	0307	30	NY
BV6IA	14152	1307	25	MD
C21RK	14209	1149	27	IN
CI8C	14181	1018	2	FL
FH8CB	14235	0419	4	IN
FR5ZD	14172	0412	4	TN
HB0CZS	14156	0319	27	MN
J52US	14205	2243	2	OH
JW5E	14197	0008	3	NC
JW6XGA	14180	0003	30	TN
JX8KY	14236	2220	4	MD
JY3ZH	14252	0400	2	CA
KC4USV	14263	0429	4	TN
KX6BA	14182	1128	5	CT
OD5TE	14235	0235	31	CA
OJ0MR	14181	0009	1	MD
OY9A	14250	2240	4	MA
P29DD	14191	1030	4	MA
P29KH	14245	1156	5	CT
P29MM	14222	1139	16	TN
PY0FF	14236	0144	1	NC
T30BC	14208	1218	1	RI
T32AB	14206	1005	10	MA
UC8D/	14192	1543	8	MA

RB4MF

UJ8JMM	14163	0040	4	MA
UL8DZZ	14186	0204	2	FL
V85BA	14215	1136	3	NH
V85RM	14205	1330	1	IA
VO8AA	14218	1149	25	MD
XF1C	14233	0039	1	TN
XU1SS	14165	1259	30	CO
YB9LA	14206	1320	7	OR
YN4ZJR	14186	2255	5	MA
ZB2GR	14228	0827	6	NV
ZP9XJS	14236	0204	21	CO

-----15 Meter CW-----

4S7EA	21021	0147	7	VA
4S7GF	21010	0135	2	MO
4S7RO	21004	0212	3	WA
4U1VIC	21028	1144	2	GA
4X6MP	21005	1540	2	ID

5U7/	21043	2254	24	IL
TU4BR				
A92EM	21033	0400	3	WA
A92EM	21034	2110	9	FL
BV2DA	21003	1307	3	MA
BV2DA	21005	0909	6	MT
EA6ZY	21027	0527	4	CA
JT/OK1KC	21009	0402	4	MA
JT1BR	21027	1600	6	OR
OD5LX	21025	0410	2	WA
OY1R	21026	1607	5	CA
TA2AI	21016	2200	31	OR
TA2J	21046	1427	5	FL
TX9IPA	21012	2122	9	FL
UA0YM	21013	0026	4	NY
UI9AWX	21015	1130	6	OR
UI9GWP	21050	0412	9	OR
UJ8JX	21036	1746	5	NY
UJ8XDH	21011	0239	3	TN
UL7IAL	21018	0147	2	MN
UL8GWG	21029	0327	5	FL
VP2EMA	21031	1230	1	NY
VU2KEN	21014	0204	5	MO
XU1SS	21027	1540	8	CA
ZC4EE	21009	2132	9	FL

-----15 Meter SSB-----

3B8BD	21229	0515	3	CA
4S/DF9FA	21230	0200	7	CO
5B4JE	21318	2119	7	CO
5B4TI	21305	1548	3	WA
5B4WB	21273	0037	1	IL
5H3RB	21302	2034	4	OR
5T5DX	21253	1608	2	KY
5V5TS	21253	2130	3	CA
5Z4DU	21320	2100	3	WA
5Z4MR	21266	1955	28	CA
5Z4SS	21250	2139	26	CO
6W6AB	21230	2206	25	MD
6W7OG	21345	2000	4	MA
9K2DZ	21330	0435	9	OR
9M2AR	21235	1655	25	ND
9M2HB	21253	1640	5	MO
9Q5NW	21255	1825	6	KY
9V1RH	21329	1640	26	MD
9V1TJ	21267	1550	5	MI
A4XKB	21331	2345	2	CO
A4XKI	21295	1905	30	FL
A4XKP	21248	1191	29	CA
A71BJ	21225	0304	2	MD
A92BE	21220	0326	4	CA
A92BK	21204	0206	29	MD
BV2FA	21222	1453	5	OR
BY4RB	21227	1358	27	MD
CN8EL	21223	2114	25	MD
EA9IB	21298	0226	4	OR
FH5EF	21312	0447	4	MO
FK0BA	21320	0405	1	CO
FT5ZB	21271	0342	30	MO
HB0CZS	21250	0529	3	CA
HZ1AB	21243	1919	29	CA
J28DN	21250	0205	3	NH
JW8FG	21216	1710	26	MD
JY5CI	21276	0451	9	OR
JY5HH	21231	0351	3	IN
OD5BU	21315	0511	9	OR
OD5KV	21335	1845	3	CA
SV0FE	21302	2310	5	IA
SV5TS	21263	1805	4	WA
SV9AKD	21250	2318	30	WY
SV9ANJ	21345	2116	4	MA
SX1RAAG	21200	0016	5	MA
TA2AP	21346	2028	1	MD
TA3C	21319	0440	29	IN
TL8CK	21322	2125	7	CO
TL8HW	21355	1930	3	RI

TQ6JUN	21261	2106	4	FL
TU2QQ	21212	1117	4	NH
TZ4DU	21320	1948	31	KY
UH8AAX	21313	0410	4	NY
UI8AGH	21311	1612	3	WA
UI8FM	21236	0121	2	MO
UI8LAD	21312	1929	4	KY
UI8ZAC	21261	0325	3	OR
UJ8SAD	21270	1827	2	OR
UR2QD	21250	0405	29	MN
UV2GI	21355	0130	7	VA
VU2NR	21279	0113	4	WY
VU2TJW	21256	0211	2	NH
VU2TTC	21221	1432	26	MD
VU2ZAP	21282	0230	2	NY
XX9KA	21254	1620	4	RI
YC0LOG	21202	1512	5	MI
YI1BGD	21259	1245	3	RI
YK/	21245	2005	27	MD

OE1RUA

ZB2GR	21290	1436	30	CT
ZK1XV	21230	0245	1	MD

-----12 Meters-----

4X4DK	24900	1445	4	MA
EA8/	24903	1940	4	CT

EA5BS

EA8QL	24945	2112	2	CT
HB9DX	24900	1620	5	NM
HB9LN	24903	1825	4	CT
HZ1AB	24947	1603	4	NM
SV/	24945	1840	3	NM

KA4NGW

SV5/	24897	1351	4	MA
DJ1UR				
TZ6VV	24910	1806	25	NM
YJ0AF	24950	0550	26	NM
ZL2ANT	24906	1948	2	NM

-----10 Meter CW-----

A35AS	28011	0036	24	CT
EA8ABR	28018	0045	6	FL
J52US	28030	1942	30	MA
SV1JG	28036	1830	4	WA
VP2EMA	28015	2231	4	CT
ZY0TR	28025	1847	4	TN

-----10 Meter SSB-----

5B4TI	28490	1710	3	WA
5V7WD	28447	1730	30	MD
5W1GP	28475	2347	6	CO
7P8DX	28459	1502	4	MD
9V1WU	28503	0030	4	TN
A92BE	28490	0020	7	VA
C31LBL	28319	2053	4	IN
J28DN	28506	0116	3	CO
J52US	28486	1751	4	KY
P43HM	28419	1800	4	KY
SP3AGE	28500	0039	7	VA
SV1TW	28516	0000	5	MA
TL8HW	28485	1947	3	RI
TR8JLD	28446	2228	4	NJ
VK9ND	28503	0055	4	TN
VU2GI	28499	0022	5	NH
YK/	28547	1816	4	MA
OE1RUA				
ZK1XV	28464	2027	3	RI

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Issue 442 - June 17, 1988

(Changes and hot info in boldface.)

Amsterdam - FT8Z FT5ZB 14165+ 1130Z I441
 7005 0145Z; 14025 0300Z
 Anguilla - VP2E VP2EMA CW to Jun 22 I442
 Aruba - P4 P40P June 15-22 I439
 Bahamas - C6 W8KKF IARU HF Jul 9 I441
 Bahrain - A92 A92BE 21200-230 03Z I442
 Central Africa TL8HW 21335 1900Z I439
 Christmas Is. VK4CEI/VK9X Jun 17-24 I438
 Christmas - T32 T32BE Sept. 15-21 I441
 Comoros - D68 D68WB back soon I442
 Congo - TN TN8NW June 30-July 4 I442
 Corsica - TK TK/HB9TL from Jul 14 I441
 Council of Europe TP0CE June 24-26 I440
 Franz Josef Land UA10/UA0BDU, UW3HY/1 I434
 Glorioso - FR/G FR4FA/G June 22-July I436
 Guinea-Bissau J5 J52US 14200 22-23Z I442
 Juan Fernandez CE0ICD 14236 2200Z I434
 Kerquelen - FT-X FT5XE 14055 1100Z I442
 Kenya - 5Z4 5Z4DU 21320 1830Z I442
 Liechtenstein HB0 HB0/F6GMB Aug 8-20 I437
 Marshall Is. KX6 KX6HN 14196 1215-13Z I440
 Mauritius - 3B8 3B8CF 14033 0330Z+ I440
 Minami Torishima KA2CC July 8-15 SSB I442
 Mongolia - JT JT1BR 14027 1400Z I440
 Nepal - 9N 9N1MM 14183 0100Z I434
 Nevis - V47 V47/NO9Y June 18-25 I442
 North Cooks ZK1 ZK1QC June 25-30 I436
 Oblast 177 UM-P UM9MWA/UM5P to Jun 27 I442
 Oman - A4X A4XKP 21265-75 1700Z I442
 Papua New Guinea P29JP 14178 1100Z+ I440
 Rodriguez - 3B9 3B9FR 14250 at 0300Z I441
 More skeds in Issue 438
 Rwanda - 9X 9X5SP 14292 0230Z I442
 Saba Is. - PJ PJ0M 6M Jul 7-14 I430
 St. Pierre - FP by W9s Aug 10-18 I440
 Svalbard - JW JW/WA4ZEL now I442

Taiwan - BV

Tanzania - 5H

Tokelau - ZK3

Tuvalu - T2

U.A.E. - A61

Virgin Is. - KP2

W. Malaysia - 9M2

West Samoa - 5W

Yemen - 4W

BV2DA 14005 1400Z I438

BV2B 14223-26 1300Z I439

5H1HK 21040 13, 22Z I439

by VK2BCH June 24-30 I441

CQWW SSB by K8JRK I432

A61AB 14251 at 2100Z I439

QRPers July 7-14 I442

9M2HB 21255 1650Z I442

5W1GY June 10-18 I441

4W0EA June 24-30 I440

DX Activities and Contests

Date	Event or Activity	Info
June 15	10-Meter DXCC Apls.	QST
June 18-19	All Asian Phone	CQ
June 25-26	ARRL Field Day	QST
July 9-10	IARU HF Contest	QST

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Contributors

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